

LENET :

Team Name – Outliers

Team Number – 13

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Project objectives:

- Build Lenet – 5 from scratch using basic libraries such as NumPy.
- Evaluate with inbuilt Lenet – 5 model trained with libraries.
- Achieve an accuracy close to the paper's on MNSIT test set.

Deliverables:

- Preprocess MNSIT Dataset containing 60000 samples.
- Implementing hidden layers and forward pass.
- Implementing back-propagation from scratch.
- Visualizing and comparing the results on MNSIT data set.

Timeline (Year 2021):

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| 26 th Oct | Project Allocation |
| 7 th Nov | Proposal Submission |
| 8 th Nov – 11 th Nov | Paper and relevant work reading |
| 12 th Nov – 17 th Nov | Implementing hidden layers and forward pass. |
| 18 th Nov – 20 th Nov | Mid evaluation |
| 21 st – 27 th Nov | Backpropagation implementation |
| 27 th Nov – 3 rd Dec | Training, testing, Analysis and ppt preparation |
| 4 th Dec | Final Evaluation |

References:

1. http://vision.stanford.edu/cs598_spring07/papers/Lecun98.pdf